Property Data

Envalior
Imagine the Future

Arnitel® PB582–H

TPC–ET

Blow Molding Grade, Heat Stabilized

Print Date: 2026–08–22

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate (MVR)	2.9	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	10	kg	ISO 1133
MECHANICAL PROPERTIES	**VALUE**		
Shore D Hardness (3s)	55	–	ISO 868
Tensile modulus	300	MPa	ISO 527–1/–2
Stress at break	30	MPa	ISO 527–1/–2
Nominal strain at break	150	%	ISO 527–1/–2
Stress at 5% strain	13	MPa	ISO 527–1/–2
Stress at 10% strain	18	MPa	ISO 527–1/–2
Stress at 50% strain	25	MPa	ISO 527–1/–2
Stress at 100% strain	28	MPa	ISO 527–1/–2
Charpy notched impact strength (+23°C)	N	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	15	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m²	ISO 180/1A
MECHANICAL PROPERTIES (DIE CUTTING)	**VALUE**		
Stress at break (normal)	41	MPa	ISO 527–1/–2
Stress at 5% strain (normal)	11	MPa	ISO 527–1/–2
Stress at 10% strain (normal)	15	MPa	ISO 527–1/–2
Stress at 50% strain (normal)	17.5	MPa	ISO 527–1/–2

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Stress at 100% strain (normal)	17	MPa	ISO 527–1/–2
Strain at break (normal)	610	%	ISO 527–1/–2
Stress at 10% strain (parallel)	14	MPa	ISO 527–1/–2
Stress at 10% strain (parallel) (+100°C)	7.1	MPa	ISO 527–1/–2
Tear strength (normal)	131	kN/m	ISO 34–1; Method B
Tear strength (parallel)	137	kN/m	ISO 34–1; Method B

THERMAL PROPERTIES	VALUE		
Melting temperature (10°C/min)	220	°C	ISO 11357–1/–3
Temp. of deflection under load (0.45 MPa)	100	°C	ISO 75–1/–2
Vicat softening temperature (50°C/h 50N)	105	°C	ISO 306

OTHER PROPERTIES	VALUE		
Density	1230	kg/m³	ISO 1183

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